(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 6 October 2005 (06.10.2005)

PCT

(10) International Publication Number WO 2005/093661 A2

(51) International Patent Classification⁷: G06T 9/00

(21) International Application Number:

PCT/US2005/006453

(22) International Filing Date: 1 March 2005 (01.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/551,417

9 March 2004 (09.03.2004) US

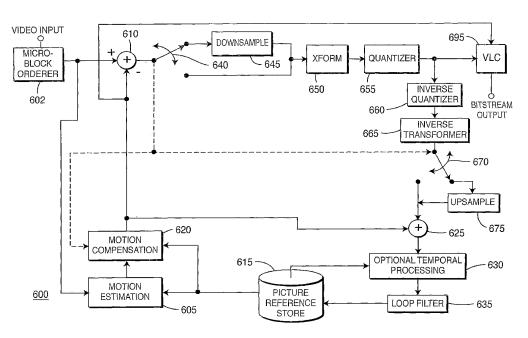
- (71) Applicant (for all designated States except US): THOMSON RESEARCH FUNDING CORPORATION [—/US]; 10330 North Meridian Street, INH 340, Indianapolis, IN 46290 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TOURAPIS, Alexandros [GR/US]; 20212 Heather Drive, West Windsor, New Jersey 08550 (US). BOYCE, Jill, MacDonald

[US/US]; 3 Brandywine Court, Manalapan, New Jersey 07726 (US).

- (74) Agents: TRIPOLI, Joseph, S. et al.; c/o Thomson Licensing Inc., 2 Independence Way, Suite 200, Princeton, New Jersey 08540 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: REDUCED RESOLUTION UPDATE MODE FOR ADVANCED VIDEO CODING



(57) Abstract: There is provided a video encoder, video decoder and corresponding encoding and decoding methods for respectively encoding and decoding video signal data for an image slice. The video encoder includes a slice prediction residual downsampler (645) for downsampling a prediction residual of at least a portion of the image slice prior to transformation and quantization of the prediction residual. The video decoder includes a prediction residual upsampler (715) for upsampling a prediction residual of the image slice.

WO 2005/093661 A2



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

 without international search report and to be republished upon receipt of that report